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INFORMATION DISCLOSURE  
STATEMENT  
Patent Application  
Docket No. UF-386CXC1  
Serial No. 10/574,124

  
D. R. Pace, Patent Attorney

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : Harry J. Klee, Denise Tieman  
Serial No. : 10/574,124  
Filed : March 31, 2006  
For : Materials and Methods for Synthesis of a Flavor and Aroma Volatile in Plants

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT  
UNDER 37 CFR §§1.97 AND 1.98

Sir:

In accordance with 37 CFR §1.56, the references listed on the attached form PTO/SB/08 are being brought to the attention of the Examiner for consideration in connection with the examination of the above-identified patent application. A copy of each cited reference is enclosed. However, Applicants have not submitted copies of the U.S. patents or published U.S. Patent Applications cited on attached Form PTO/SB/08 pursuant to 37 CFR 1.98(a)(2)(ii).

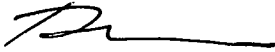
It is respectfully requested that the references cited on the attached form PTO/SB/08 be considered in the examination of the subject application and that their consideration be made of record.

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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /RK/

Applicants respectfully assert that the substantive provisions of 37 CFR §§1.97 and 1.98 are met by the foregoing statement.

Respectfully submitted,



Doran R. Pace  
Patent Attorney  
Registration No. 38,261  
Phone No.: 352-375-8100  
Fax No.: 352-372-5800  
Address: P.O. Box 142950  
Gainesville, FL 32614-2950

DRP/kmm

Attachments: Form PTO/SB/08; copies of cited references.

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PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031  
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Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

**Complete if Known**

Application Number	10/574,124
Filing Date	March 31, 2006
First Named Inventor	Harry J. Klee
Art Unit	
Examiner Name	
Attorney Docket Number	UF-386CXC1

Sheet 1 of 5

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)			
	U1	US-5,034,322	07-23-1991	Rogers, <i>et al.</i>	All
	U2	US-5,106,739	04-21-1992	Comai, <i>et al.</i>	All
	U3	US-5,589,610	12-31-1996	De Beuckeleer, <i>et al.</i>	All
	U4	US-5,625,136	04-29-1997	Koziel, <i>et al.</i>	All
	U5	US-5,639,948	06-17, 1997	Michiels, <i>et al.</i>	All
	U6	US-5,652,354	07-29-1997	Mariani, <i>et al.</i>	All
	U7	US-5,859,328	01-12-1999	Nasrallah, <i>et al.</i>	All
	U8	US-6,054,574	04-25-2000	Quail, <i>et al.</i>	All
	U9	US-6,118,049	09-12-2000	Bestwick, <i>et al.</i>	All
	U10	US-6,127,179	10-03-2000	DellaPenna <i>et al.</i>	All
	U11	US-6,340,748	01-22-2002	Ro <i>et al.</i>	All
	U12	US-6,455,760	09-24-2002	Zhao, <i>et al.</i>	All
	U13	US-6,462,185	10-08-2002	Takakura, <i>et al.</i>	All
	U14	US-6,528,701	03-04-2003	Wang, <i>et al.</i>	All
	U15	US-6,696,623	02-24-2002	Doerner, <i>et al.</i>	All
	U16	US-6,011,199	01-04-2000	Speirs <i>et al.</i>	All
	U17	US-2003/0084486	05-01-2003	Bruce, <i>et al.</i>	All
	U18	US-2003/0177536	09-18-2003	Grundler, <i>et al.</i>	All
	U19	US-2004/0019934	01-29-2004	Ekramoddoullah, <i>et al.</i>	All
	U20	US-2004/0067506	04-08-2004	Scheres, <i>et al.</i>	All
	U21	US-2004/0078841	04-22-2004	Atkinson, <i>et al.</i>	All
	U22	US-2004/0123349	06-24-2004	Xie, <i>et al.</i>	All

Examiner Signature	/Russell Kallis/	Date Considered	
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kind Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard T.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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First Named Inventor	Harry J. Klee
Group Art Unit	
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Attorney Docket Number	UF-386CXC1

Sheet	2	of	5
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**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article, (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	R1	AHARONI, A. <i>et al.</i> "Identification of the SAAT gene involved in strawberry flavor biogenesis by use of DNA microarrays" <i>Plant Cell</i> , May 2000, pp. 647-661, Vol. 12.	
	R2	ALTSCHUL, S. F. <i>et al.</i> "Gapped BLAST and PSI-BLAST: A new generation of protein database search programs" <i>Nucleic Acids Research</i> , 1997, pp. 3389-3402, Vol. 25, No. 17.	
	R3	BELTZ, G.A., <i>et al.</i> "Isolation of multigene families and determination of homologies by filter hybridization methods" <i>Methods of Enzymology</i> (ed. by Wu, R. <i>et al.</i> ), 1983, pp. 266-285, Vol. 100, Academic Press, New York.	
	R4	BLUME, B. <i>et al.</i> "Expression of ACC oxidase promoter-GUS fusions in tomato and <i>Nicotiana plumbaginifolia</i> regulated by developmental and environmental stimuli" <i>The Plant Journal</i> , 1997, pp. 731-746, Vol. 12, No. 4.	
	R5	BUTTERY, R.G. <i>et al.</i> "Quantitative studies on origins of fresh tomato aroma volatiles" <i>J. Agric. Food Chem.</i> , 1988, pp. 1247-1250, Vol. 36, No. 6.	
	R6	CIARDI, J.A. <i>et al.</i> "Response to <i>Xanthomonas campestris</i> pv. <i>vesicatoria</i> in tomato involves regulation of ethylene receptor gene expression" <i>Plant Physiol.</i> , May 2000, pp. 81-92, Vol. 123.	
	R7	CLANCY, M. <i>et al.</i> "Splicing of the maize Sh1 first intron is essential for enhancement of gene expression, and a T-Rich motif increases expression without affecting splicing" <i>Plant Physiol.</i> , October 2002, pp. 918-929, Vol. 130.	
	R8	DE BOER, H.A. <i>et al.</i> "The <i>tac</i> promoter: a functional hybrid derived from the <i>trp</i> and <i>lac</i> promoters" <i>Proc. Natl. Acad. Sci. U.S.A.</i> , January 1983, pp. 21-25, Vol. 80, No. 1.	
	R9	DEIKMAN, J. <i>et al.</i> "Organization of ripening and ethylene regulatory regions in a fruit-specific promoter from tomato ( <i>Lycopersicon esculentum</i> ), <i>Plant Physiol.</i> , 1992, pp. 2013-2017, Vol. 100.	
	R10	ESHED, Y. <i>et al.</i> "A genomic library of <i>Lycopersicon pennellii</i> in <i>L. esculentum</i> : A tool for fine mapping of genes" <i>Euphytica</i> , 1994, pp. 175-179, Vol. 79, No. 3.	E T
	R11	FRAY, R. <i>et al.</i> "Identification and genetic analysis of normal and mutant phytoene synthase genes of tomato by sequencing, complementation and co-suppression" <i>Plant Molecular Biology</i> , 1993, pp. 589-602, Vol. 22, No. 4.	
	R12	GIOVANNONI, J. "Molecular biology of fruit maturation and ripening" <i>Annual Review of Plant Physiology and Plant Molecular Biology</i> , 2001, pp. 725-749, Vol. 52, No. 1.	
	R13	GIOVANNONI, J. <i>et al.</i> "A MADS-Box gene necessary for fruit ripening at the tomato ripening-inhibitor (Rin) locus" <i>Science</i> , April 2002, pp. 343-346, Vol. 296, No. 5566.	

Examiner Signature	/Russell Kallis/	Date Considered	05/08/2010
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# **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

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**Complete if Known**

Application Number	10/574,124
Filing Date	March 31, 2006
First Named Inventor	Harry J. Klee
Group Art Unit	
Examiner Name	
Attorney Docket Number	UF-386CXC1

Sheet 3 of 5

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article, (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	R14	GIOVANNONI, J.J. <i>et al.</i> "Expression of a chimeric polygalacturonase gene in transgenic rin (Ripening Inhibitor) tomato fruit results in polyuronide degradation but not fruit softening" <i>Plant Cell</i> , January 1989, pp. 53-63, Vol. 1.	
	R15	GIOVANNONI, J. <i>et al.</i> "Genetic mapping of ripening and ethylene-related loci in tomato" <i>Theoretical and Applied Genetics</i> , May 1999, pp. 1005-1013, Vol. 98, No. 6-7.	
	R16	GOOD, X. <i>et al.</i> "Reduced ethylene synthesis by transgenic tomatoes expressing S-adenosylmethionine hydrolase" <i>Plant Molecular Biology</i> , 1994, pp. 781-790, Vol. 26, No. 3.	
	R17	GRAY, J.E. <i>et al.</i> "The use of transgenic and naturally occurring mutants to understand and manipulate tomato fruit ripening" <i>Plant, Cell and Environment</i> , May 1994, pp. 557-571, Vol. 17.	
	R18	HAMILTON, A. <i>et al.</i> "Antisense gene that inhibits synthesis of the hormone ethylene in transgenic plants" <i>Nature</i> , 1990, pp. 284-287, Vol. 346, No. 6281.	
	R19	KARLIN, S. <i>et al.</i> "Methods for assessing the statistical significance of molecular sequence features by using general scoring schemes" <i>Proc. Natl. Acad. Sci. U.S.A.</i> , March 1990, pp. 2264-2268, Vol. 87.	
	R20	KARLIN, S. <i>et al.</i> "Applications and statistics for multiple high-scoring segments in molecular sequences" <i>Proc. Natl. Acad. Sci. U.S.A.</i> , June 1993, pp. 5873-5877, Vol. 90.	
	R21	KLEE, H.J. <i>et al.</i> "Control of ethylene synthesis by expression of a bacterial enzyme in transgenic tomato plants" <i>Plant Cell</i> , November 1991, pp. 1187-1193, Vol. 3.	
	R22	LANAHAN, M. B. <i>et al.</i> "The never ripe mutation blocks ethylene perception in tomato" <i>Plant Cell</i> , April 1994, pp. 521-530, Vol. 6.	
	R23	LARROY, C. <i>et al.</i> "Characterization of the <i>Saccharomyces cerevisiae</i> YMR318C (ADH6) gene product as a broad specificity NADPH-dependent alcohol dehydrogenase: relevance in aldehyde reduction" <i>Biochemistry Journal</i> , January 2002, pp. 163-172, Vol. 361	
	R24	LASHBROOK, C. <i>et al.</i> "Transgenic analysis of tomato endo- $\beta$ -1,4-glucanase gene function. Role of <i>cel1</i> in floral abscission" <i>Plant Journal</i> , February 1998, pp. 303-310, Vol. 13, No. 3.	
	R25	LELIEVRE, J.M. <i>et al.</i> "Ethylene and fruit ripening" <i>Physiologia Plantarum</i> , 1997, pp. 727-739, Vol. 101, No. 4.	
	R26	LINCOLN, J.E. <i>et al.</i> "Regulation of gene expression by ethylene during <i>Lycopersicon esculentum</i> (tomato) fruit development" <i>Proc. Natl. Acad. Sci. U.S.A.</i> , May 1987, 2793-2797, Vol. 84.	

Examiner Signature	/Russell Kallis/	Date Considered	05/08/2010
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Sheet	4	of	5
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	R27	MAUNDERS, M.J. <i>et al.</i> "Ethylene stimulates the accumulation of ripening-related mRNAs in tomatoes" <i>Plant Cell and Environment</i> , 1987, pp. 177-184, Vol. 10.	
	R28	MOORE, S. <i>et al.</i> "Use of genomics tools to isolate key ripening genes and analyse fruit maturation in tomato" <i>Journal of Experimental Botany</i> , October 2002, pp. 2023-2030, Vol. 53, No. 377.	
	R29	NAKATSUKA, A. <i>et al.</i> "Differential expression and internal feedback regulation of 1-aminocyclopropane-1-carboxylate synthase, 1-aminocyclopropane-1-carboxylate oxidase, and ethylene receptor genes in tomato fruit during development and ripening" <i>Plant Physiology</i> , December 1998, pp. 1295-1305, Vol. 118.	
	R30	OELLER, P.W. <i>et al.</i> "Reversible inhibition of tomato fruit senescence by antisense RNA" <i>Science</i> , October 1991, pp. 427-439, Vol. 254, No. 5030.	
	R31	PAYTON, S. <i>et al.</i> "Ethylene receptor expression is regulated during fruit ripening, flower senescence and abscission" <i>Plant Molecular Biology</i> , September 1996, pp. 1227-1231, Vol. 31, No. 6.	
	R32	RICHINS, R.D. <i>et al.</i> "Sequence of figwort mosaic virus DNA (caulimovirus group)" <i>Nucl. Acids Res.</i> , October 1987, pp. 8451-8466, Vol. 15, No. 20.	
	R33	RONEN, G. <i>et al.</i> "Regulation of carotenoid biosynthesis during tomato fruit development: Expression of the gene for lycopene epsilon-cyclase is down-regulated during ripening and is elevated in the mutant <i>Delta</i> " <i>Plant Journal</i> , February 1999, pp. 341-351, Vol. 17.	
	R34	RONTEIN, D. <i>et al.</i> "Plants synthesize ethanolamine by direct decarboxylation of serine using a pyridoxal phosphate enzyme" <i>J. Biol. Chem.</i> , September 2001, pp. 35523-35529, Vol. 276, No. 38.	
	R35	SALIBA-COLOMBANI, V. <i>et al.</i> "Genetic analysis of organoleptic quality in fresh market tomato. 1. Mapping QTLs for physical and chemical traits" <i>Theoretical and Applied Genetics</i> , February 2001, pp. 259-272, Vol. 102, No. 2-3.	
	R36	SCHMELZ, E. A. <i>et al.</i> "The influence of intact-plant and excised-leaf bioassay designs on volicitin- and jasmonic acid-induced sesquiterpene volatile release in <i>Zea mays</i> " <i>Planta</i> , December 2001, pp. 171-179, Vol. 214.	
	R37	SCHMELZ, E. A. <i>et al.</i> "Quantitative relationships between induced jasmonic acid levels and volatile emission in <i>Zea mays</i> during <i>Spodoptera exigua</i> herbivory" <i>Planta</i> , February 2003, pp. 665-673, Vol. 216.	
	R38	SCHWARTZ, S.H. <i>et al.</i> "Characterization of a novel carotenoid cleavage dioxygenase from plants" <i>J. Biol. Chem.</i> , July 2001, pp. 25208-25211, Vol. 276, No. 27.	
	R39	STARK, D. <i>et al.</i> "Inhibition aspects of the bioconversion of L-phenylalanine to 2-phenylethanol by <i>Saccharomyces cerevisiae</i> " <i>Enzyme and Microbial Technology</i> , February 2003, pp. 212-223, Vol. 32, No. 2.	

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	R40	TADMOR, Y. <i>et al.</i> "Identification of <i>malodorous</i> , a wild species allele affecting tomato aroma that was selected against during domestication" <i>Journal of Agricultural and Food Chemistry</i> , March 2002, pp. 2005-2009, Vol. 50, No. 7.	
	R41	TAN, B.C. <i>et al.</i> "Genetic control of abscisic acid biosynthesis in maize" <i>Proc. Natl. Acad. Sci. U.S.A.</i> , October 1997, pp. 12235-12240, Vol. 94.	
	R42	TANKSLEY, S.D. <i>et al.</i> "High density molecular linkage maps of the tomato and potato genomes" <i>Genetics</i> , 1992, pp. 1141-1160, Vol. 132.	
	R43	TIEMAN, D. "Identification of genes involved in tomato volatile synthesis" From the American Society of Biologists, No. 258, XP002339006, <a href="http://abstracts.aspb.org/pb2004/public/M03/9103.html">http://abstracts.aspb.org/pb2004/public/M03/9103.html</a> . (Abstract only).	
	R44	VREBALOV, J. <i>et al.</i> "A MADS-Box gene necessary for fruit ripening at the tomato ripening-inhibitor (Rin) locus." <i>Science</i> , April 2002, pp. 343-346, Vol. 296, No. 5566.	
	R45	WILKINSON, J.Q. <i>et al.</i> "An ethylene-inducible component of signal transduction encoded by never-ripe" <i>Science</i> , December 1995, pp. 1807-1809, Vol. 270, No. 5243.	
	R46	XU, D. <i>et al.</i> "Systemic induction of a potato pin2 promoter by wounding, methyl jasmonate, and abscisic acid in transgenic rice plants" <i>Plant Molecular Biology</i> , July 1993, pp. 573-588, Vol. 22, No. 4.	
	R47	YANG, T.T. <i>et al.</i> "Optimized codon usage and chromophore mutations provide enhanced sensitivity with the green fluorescent protein" <i>Nucleic Acids Research</i> , November 1996, pp. 4592-4593, Vol. 24, No. 22.	
	R48	YEN, H.C. <i>et al.</i> "The tomato high-pigment (hp) locus maps to chromosome 2 and influences plastome copy number and fruit quality" <i>Theoretical and Applied Genetics</i> , November 1997, pp. 1069 - 1079, Vol. 95, No. 7.	
	R49	YEN, H.C. <i>et al.</i> "The tomato never-ripe locus regulates ethylene-inducible gene expression and is linked to a homolog of the <i>arabidopsis</i> ETR1 gene" <i>Plant Physiology</i> , April 1995, pp. 1343-1353, Vol. 107, No. 4.	
	R50		
	R51		
	R52		

Examiner Signature	/Russell Kallis/	Date Considered	05/08/2010
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

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